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Application No. 10/662,579
Amendment dated 09/22/2005
Reply to Office Action of 01/12/2006

02-ASD-184 (GT)

Amendments to the Claims:

Please amend the claims as indicated below.

Listing of Claims:

1. (Currently amended) A method of mounting-making a float operated vapor vent valve that is mountable through an access opening to a fuel tank comprising:
 - (a) forming a valve body with a flange of weldable material attachable to the fuel tank, the valve body including and having a float chamber, and disposing a float therein and forming a vent port with a float valve communicating with the float chamber;
 - (b) dispensing a valve member for movement with the float and moving the float and seating the valve member on said valve seat and closing the vent port; and
 - (c) forming co-operating surfaces on said float chamber and said float and slidably-engaging said surfaces and preventing to prevent relative rotation therebetween;
 - (d) inserting portions of said body through an access hole in the tank; and,
 - (e) spin welding said flange to the tank.
2. (Currently amended) The method defined in claim 1, wherein said step of forming a valve body includes forming an annular flange extending outwardly over said access opening.
3. (Currently amended) The method defined in claim 2 wherein said step of slidably restraining engaging includes forming a pair of oppositely disposed slots and forming projections on the valve member and disposing the projections in said slot.
4. (Currently amended) The method defined in claim 1 wherein said step of forming cooperating surfaces on said body-float chamber and said float includes forming a plurality of ribs on one of said chambers-float chamber and

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said float and forming corresponding grooves on the other of said float chamber and said float.

5. (Currently amended) The method defined in claim 1, further comprising disposing a gravity operated pressure relief valve in said vent port downstream of said float-valve seat.
6. (Currently amended) The method defined in claim 5 wherein said step of disposing a pressure relief valve includes slidably-disposing an obturator and preventing rotation thereof with respect to said valve body.
7. (Currently amended) The method defined in claim 6 wherein said step of preventing rotation includes forming a plurality of slots on one of said obturator and said valve body and engaging the slots with cooperating surfaces on the other of said obturator and said valve body.
8. (Original) The method defined in claim 7 wherein said step of engaging the slots includes disposing a cross pin in said pressure relief valve.
9. (Currently amended) The method defined in claim 1, wherein said step of forming the a valve body includes forming a body portion of non-weldable material and attaching a cover of weldable material with the flange portion thereon.
10. (Currently amended) A float operated vapor vent valve for mounting through an access opening in a fuel tank and weldment attachment to the tank:
 - (a) a valve body formed of material with a flange portion weldable attachable to the tank and having a valving cavity-float chamber therein with a vent passage having a valve seat;
 - (b) a float disposed in the valving cavity-float chamber and having a valve member thereon moveable with the float for closing against said valve seat;
 - (c) said flange portion extends outwardly over the access opening and is

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~~spin-welded-attached~~ to the tank; and,

(d) said float includes surfaces thereon engaging that engage cooperating surfaces in said valving-chamber float chamber for preventing relative rotation therebetween ~~during spin-welding~~.

11. (Currently amended) The combination defined in claim 10, wherein said cooperating surfaces include ribs on one of said float and valving said float chamber and grooves on the other of said float and said float chamber.
12. (Currently amended) The combination defined in claim 10, further comprising a gravity operated pressure relief valve disposed in said vent chamber passage downstream of said vent-valve seat.
13. (Currently amended) The combination defined in claim 12, wherein said pressure relief valve includes another a second valve seat and an obturator moveable with respect thereto.
14. (Currently amended) The combination defined in claim 12, wherein said pressure relief valve includes another a second valve seat and an obturator moveable with respect thereto and anti-spin-rotation means operable to prevent relative rotation between said obturator and said another valve seat during spin-welding.
15. (Currently amended) The combination defined in claim 14, wherein said anti-spin-rotation means includes a slot in one of said valve body and said obturator slidably engaged by-with a projection on the other of said valve body and said obturator.
16. (Currently amended) The combustion defined in claim 15, wherein projection includes a cross pin in said obturator.
17. (Currently amended) The combination defined in claim 10, wherein said cover seal on said body includes further comprising an annular labyrinth seal on said valve body.

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18. (Original) The combination defined in claim 10, wherein said body is formed of non-weldable material and has a cover of weldable material with said flange attached thereto.

Please add the following new claims:

19. (New) The combination of claim 10, wherein the flange is made of a weldable material.

20. (New) A method of mounting a float operated vapor vent valve through an access opening to a fuel tank comprising:

- (a) forming a valve body with a flange mountable to the fuel tank, the valve body including a float chamber, and disposing a float therein and forming a vent port with a float valve communicating with the float chamber;
- (b) disposing a valve member for movement with the float and moving the float and seating the valve member on said valve seat and closing the vent port;
- (c) forming co-operating surfaces on said float chamber and said float and engaging said surfaces to prevent relative rotation therebetween;
- (d) inserting portions of said valve body through an access hole in the tank; and,
- (e) attaching said flange to the tank.

21. (New) The method of claim 20, wherein the attaching step is conducted by spin welding.